IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of   Atty. Docket

ALPHONS A.M.L. BRUEKERS ET AL   NL010009

Filed: CONCURRENTLY

Title: METHOD AND APPARATUS FOR PROTECTING LOSSLESS TRANSMISSION OF
A DATA STREAM

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please
amend the above-identified application as follows:

IN THE CLAIMS

Please amend Claims 3-5, 8, 11-13, and 16-17 to be in the form
as follows. A marked up copy of the claims is included in an
appendix following this amendment for the Examiners convenience.

3.   A method as claimed in claim 1, in which the checksum is
a cyclic redundancy checksum.

4.   A method as claimed in claim 1, in which the method
comprises the further step of channel encoding, to enable a
lossless transmission via the medium (15).

5.   A method of decoding an encoded signal obtained by the encoding method according to claim 1, comprising the steps of:

-      receiving the encoded signal;

-      extracting the encoded packet and associated checksum from the received encoded signal;

-      decoding the encoded packet into a decoded packet comprising the input digital signal;

-      calculating a checksum for the decoded packet; and

-      if the calculated checksum corresponds with the extracted checksum, outputting the decoded packet as an output signal.

8.   A method as claimed in claim 5, when dependent on claim 4, comprising the further step of channel decoding before the step of receiving the encoded signal, to enable a lossless transmission via the medium (15).

11.   An apparatus as claimed in claim 9, in which the calculation means (12) are arranged for calculating the checksum as a cyclic redundancy checksum.

12.   An apparatus as claimed in claim 9, in which the apparatus further comprises channel encoding means (16) connected to the composition means (13) and being arranged to enable a lossless transmission via the medium (18).

13.   An apparatus (20) for decoding an encoded signal obtained

from the encoding apparatus according to claim 10, comprising:

- extracting means (21) for receiving the encoded signal and

  extracting the encoded packet and associated checksum from the

  received encoded signal;

- decoding means (22) connected to the extracting means (21) for

  decoding the encoded packet into a decoded packet comprising

  the input digital signal;

- second calculation means (23) connected to the decoding means

  (22) for calculating a checksum for the decoded packet; and

- output means (24, 25) connected to the extracting means (21),

  second calculation means (23) and decoding means (22) for

  outputting the decoded packet as an output signal if the

  calculated checksum corresponds with the extracted checksum.

16.   An apparatus as claimed in claim 13, when dependent on

claim 12, further comprising channel decoding means (17) connected

to the extracting means (21), the channel decoding means (17) being

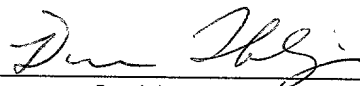arranged to enable a lossless transmission via the medium.

17.   A signal comprising at least a packet of a first type and

a packet of a second type, obtained by the method as claimed in

claim 1.

REMARKS

The foregoing Preliminary Amendment to the claims was made solely to avoid filing the claims in the multiple dependant form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicants respectfully reserves all rights they may have under the Doctrine of Equivalents. Applicants furthermore reserves their right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

By _____
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3.   A method as claimed in claim 1 ~~or 2~~, in which the checksum is a cyclic redundancy checksum.

4.   A method as claimed in claim 1, ~~2, or 3,~~ in which the method comprises the further step of channel encoding, to enable a lossless transmission via the medium (15).

5.   A method of decoding an encoded signal obtained by the encoding method according to ~~one of the claims 1 through 4~~ claim 1, comprising the steps of:

-       receiving the encoded signal;

-       extracting the encoded packet and associated checksum from the received encoded signal;

-       decoding the encoded packet into a decoded packet comprising the input digital signal;

-       calculating a checksum for the decoded packet; and

-       if the calculated checksum corresponds with the extracted checksum, outputting the decoded packet as an output signal.

8.   A method as claimed in claim 5, ~~6 or 7,~~ when dependent on claim 4, comprising the further step of channel decoding before the step of receiving the encoded signal, to enable a lossless transmission via the medium (15).

11.　　　　An apparatus as claimed in claim 9 ~~or 10~~, in which the
calculation means (12) are arranged for calculating the checksum as
a cyclic redundancy checksum.

12.　　　　An apparatus as claimed in claim 9, ~~10 or 11,~~ in which
the apparatus further comprises channel encoding means (16)
connected to the composition means (13) and being arranged to
enable a lossless transmission via the medium (18).

13.　　　　An apparatus (20) for decoding an encoded signal obtained
from the encoding apparatus according to ~~one of the claims 9
through 12~~ claim 10, comprising:

− 　　extracting means (21) for receiving the encoded signal and
　　　extracting the encoded packet and associated checksum from the
　　　received encoded signal;

− 　　decoding means (22) connected to the extracting means (21) for
　　　decoding the encoded packet into a decoded packet comprising
　　　the input digital signal;

− 　　second calculation means (23) connected to the decoding means
　　　(22) for calculating a checksum for the decoded packet; and

− 　　output means (24, 25) connected to the extracting means (21),
　　　second calculation means (23) and decoding means (22) for
　　　outputting the decoded packet as an output signal if the
　　　calculated checksum corresponds with the extracted checksum.

16.   An apparatus as claimed in claim 13, ~~14 or 15,~~ when
dependent on claim 12, further comprising channel decoding means
(17) connected to the extracting means (21), the channel decoding
means (17) being arranged to enable a lossless transmission via the
medium.

17.   A signal comprising at least a packet of a first type and
a packet of a second type, obtained by the method as claimed in ~~one~~
~~of the claims 1 through 4~~ <u>claim 1</u>.